

. pwmean WiringPacking, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

WiringPack~g	Contrast	Std. Err.	Duncan		Duncan	
			t	P> t	[95% Conf. Interval]	
Actor						
2 vs 1	-.5625	.1813677	-3.10	0.002	-.9197988	-.2052012
3 vs 1	-.725	.1813677	-4.00	0.000	-1.10112	-.3488801
3 vs 2	-.1625	.1813677	-0.90	0.371	-.5197988	.1947988

. pwmean WiringCupurity, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

WiringCupu~y	Contrast	Std. Err.	Duncan		Duncan	
			t	P> t	[95% Conf. Interval]	
Actor						
2 vs 1	.6375	.2117307	3.01	0.004	.1984134	1.076587
3 vs 1	.1875	.2117307	0.89	0.377	-.2296146	.6046146
3 vs 2	-.45	.2117307	-2.13	0.035	-.8671146	-.0328854

. pwmean WiringInsulationresist, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

WiringInsu~t	Contrast	Std. Err.	Duncan		Duncan	
			t	P> t	[95% Conf. Interval]	
Actor						
2 vs 1	.325	.1811458	1.79	0.074	-.0318617	.6818617
3 vs 1	-.3125	.1811458	-1.73	0.086	-.6693617	.0443617
3 vs 2	-.6375	.1811458	-3.52	0.001	-1.01316	-.2618402

. pwmean Wiringquanticu, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Wiringquan~u	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]
Actor					
2 vs 1	.8	.2178875	3.67	0.000	.3481456 1.251854
3 vs 1	.475	.2178875	2.18	0.030	.0457565 .9042435
3 vs 2	-.325	.2178875	-1.49	0.137	-.7542435 .1042435

. pwmean Wiringprice, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Wiringprice	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]
Actor					
2 vs 1	-1.2375	.1785689	-6.93	0.000	-1.589285 -.8857149
3 vs 1	.4	.1785689	2.24	0.026	.0482149 .7517851
3 vs 2	1.6375	.1785689	9.17	0.000	1.267184 2.007816

. pwmean Pipduration, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Pipduration	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]
Actor					
2 vs 1	-.2625	.1838086	-1.43	0.155	-.6246074 .0996074
3 vs 1	-.7625	.1838086	-4.15	0.000	-1.143682 -.3813182
3 vs 2	-.5	.1838086	-2.72	0.007	-.8621074 -.1378926

. pwmean Pipresistpress, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Pipresistp~s	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	0	.1544607	0.00	.	-.3042914	.3042914
3 vs 1	.0375	.1544607	0.24	0.821	-.2828203	.3578203
3 vs 2	.0375	.1544607	0.24	0.808	-.2667914	.3417914

. pwmean Pipthick, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Pipthick	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.5375	.1949048	2.76	0.006	.1535329	.9214671
3 vs 1	-.075	.1949048	-0.38	0.701	-.4589671	.3089671
3 vs 2	-.6125	.1949048	-3.14	0.003	-1.016693	-.208307

. pwmean Pipvariefitt, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Pipvariefitt	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.2	.1616967	1.24	0.217	-.1185464	.5185464
3 vs 1	.475	.1616967	2.94	0.005	.1396738	.8103262
3 vs 2	.275	.1616967	1.70	0.090	-.0435464	.5935464

. pwmean Pipprice, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Pipprice	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	-.475	.1995512	-2.38	0.018	-.8681206	-.0818794
3 vs 1	.3	.1995512	1.50	0.134	-.0931206	.6931206
3 vs 2	.775	.1995512	3.88	0.000	.3611713	1.188829

. pwmean Floorelegan, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Floorelegan	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	-.15	.2239338	-0.67	0.532	-.6143934	.3143934
3 vs 1	-.0875	.2239338	-0.39	0.696	-.528655	.353655
3 vs 2	.0625	.2239338	0.28	0.780	-.378655	.503655

. pwmean Floordesign, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Floordesign	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.1375	.1545973	0.89	0.406	-.1831034	.4581034
3 vs 1	.0625	.1545973	0.40	0.686	-.2420603	.3670603
3 vs 2	-.075	.1545973	-0.49	0.628	-.3795603	.2295603

. pwmean Floorstyle, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Floorstyle	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.1	.1986472	0.50	0.615	-.2913397	.4913397
3 vs 1	-.2875	.1986472	-1.45	0.149	-.6788397	.1038397
3 vs 2	-.3875	.1986472	-1.95	0.066	-.799454	.024454

. pwmean Flooreasyclean, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Flooreasyc~n	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	-.2625	.2123029	-1.24	0.247	-.7027732	.1777732
3 vs 1	-.0125	.2123029	-0.06	0.953	-.4307418	.4057418
3 vs 2	.25	.2123029	1.18	0.240	-.1682418	.6682418

. pwmean Floorprice, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Floorprice	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.175	.215869	0.81	0.418	-.2502671	.6002671
3 vs 1	.325	.215869	1.51	0.157	-.1226685	.7726685
3 vs 2	.15	.215869	0.69	0.488	-.2752671	.5752671

. pwmean Luminlastend, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Luminlastend	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	-.1375	.2257284	-0.61	0.570	-.605615	.330615
3 vs 1	-.025	.2257284	-0.11	0.912	-.4696904	.4196904
3 vs 2	.1125	.2257284	0.50	0.619	-.3321904	.5571904

. pwmean Lumindesign, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Lumindesign	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.0875	.1911787	0.46	0.648	-.2891267	.4641267
3 vs 1	-.7	.1911787	-3.66	0.000	-1.076627	-.3233733
3 vs 2	-.7875	.1911787	-4.12	0.000	-1.183966	-.391034

. pwmean Luminbrill, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Luminbrill	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	-.375	.1900339	-1.97	0.062	-.7690917	.0190917
3 vs 1	-.175	.1900339	-0.92	0.358	-.5493713	.1993713
3 vs 2	.2	.1900339	1.05	0.294	-.1743713	.5743713

. pwmean Luminenergsv, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Luminenerg~v	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.2625	.185746	1.41	0.159	-.1034241	.6284241
3 vs 1	.3125	.185746	1.68	0.113	-.0726996	.6976996
3 vs 2	.05	.185746	0.27	0.788	-.3159241	.4159241

. pwmean Luminprice, over(Actor) mcompare(duncan) effects

Pairwise comparisons of means with equal variances

over : Actor

	Number of Comparisons
Actor	3

Luminprice	Contrast	Std. Err.	Duncan t	P> t	Duncan [95% Conf. Interval]	
Actor						
2 vs 1	.0875	.2112163	0.41	0.679	-.3286013	.5036013
3 vs 1	.525	.2112163	2.49	0.018	.0869801	.9630199
3 vs 2	.4375	.2112163	2.07	0.039	.0213987	.8536013

. discrim lda WiringPacking WiringCupurity WiringInsulationresist Wiringquanticu, group(Actor >)

Linear discriminant analysis
Resubstitution classification summary

Key
Number Percent

True Actor	Classified			Total
	1	2	3	
1	38 47.50	20 25.00	22 27.50	80 100.00
2	6 7.50	59 73.75	15 18.75	80 100.00
3	11 13.75	22 27.50	47 58.75	80 100.00
Total	55 22.92	101 42.08	84 35.00	240 100.00

Priors	0.3333	0.3333	0.3333
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. estat grdistances, mahalanobis(f p)

Mahalanobis squared distances between groups

Key
Mahalanobis squared distance
F with 4 and 234 df
p-value

Actor	Actor		
	1	2	3
1	0 0 1		
2	1.390932 13.73326 4.48e-10	0 0 1	
3	.634463 6.264318 .0000835	1.993371 19.68139 5.59e-14	0 0 1

. discrim lda Pipduration Pipresistpress Pipthick Pipvariefitt, group(Actor)

Linear discriminant analysis
Resubstitution classification summary

Key
Number
Percent

True Actor	Classified			Total
	1	2	3	
1	35 43.75	32 40.00	13 16.25	80 100.00
2	19 23.75	45 56.25	16 20.00	80 100.00
3	21 26.25	24 30.00	35 43.75	80 100.00
Total	75 31.25	101 42.08	64 26.67	240 100.00
Priors	0.3333	0.3333	0.3333	

. estat grdistances, mahalanobis(f p)

Mahalanobis squared distances between groups

Key
Mahalanobis squared distance
F with 4 and 234 df
p-value

Actor	Actor		
	1	2	3
1	0 0 1		
2	.3053212 3.014564 .0188394	0 0 1	
3	.5876068 5.801687 .0001812	.7092671 7.00289 .0000243	0 0 1

. discrim lda Floorelegan Floordesign Floorstyle Flooreasyclean, group(Actor)

Linear discriminant analysis
Resubstitution classification summary

Key
Number
Percent

True Actor	Classified			Total
	1	2	3	
1	30 37.50	25 31.25	25 31.25	80 100.00
2	23 28.75	29 36.25	28 35.00	80 100.00
3	21 26.25	25 31.25	34 42.50	80 100.00
Total	74 30.83	79 32.92	87 36.25	240 100.00
Priors	0.3333	0.3333	0.3333	

. estat grdistances, mahalanobis(f p)

Mahalanobis squared distances between groups

Key
Mahalanobis squared distance
F with 4 and 234 df
p-value

Actor	Actor		
	1	2	3
1	0 0 1		
2	.0728238 .7190193 .5796873	0 0 1	

3	.0879182	.1075002	0
	.8680529	1.061394	0
	.4837744	.3763552	1

. discrim lda Luminlastend Lumindesign Luminbrill Luminenergav, group(Actor)

Linear discriminant analysis
Resubstitution classification summary

Key		Classified			Total
Number Percent		1	2	3	
True Actor					
1		30 37.50	25 31.25	25 31.25	80 100.00
2		15 18.75	41 51.25	24 30.00	80 100.00
3		17 21.25	15 18.75	48 60.00	80 100.00
Total		62 25.83	81 33.75	97 40.42	240 100.00
Priors		0.3333	0.3333	0.3333	

. estat grdistances, mahalanobis(f p)

Mahalanobis squared distances between groups

Key		Actor		
Mahalanobis squared distance F with 4 and 234 df p-value		1	2	3
Actor				
1		0 0 1		
2		.1643508 1.622704 .1692765	0 0 1	
3		.4949234 4.886586 .0008402	.5069109 5.004943 .000689	0 0 1